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Brookhaven National Laboratory National Synchrotron Light Source				Number: LS-PPS-0004 Effective: 3/7/02	Revision: A Page 1 of 4
Subje	ct: X15B Beamline Radiolo	ogical Interlock Test (	Hutch Mode)		
Prepa Appro	nred/ M. Buckley oved By:	Approved By: S.Buda		Revision	/Periodic Review Log
			1	*Approval signatures on f	ile with master copy.
Test	Reason:		Test Result:	□ Passed	□ Failed
			Test Type:	□ Full	☐ Partial
	Date:		Start Time:	Finish	Time:
Test			Assistant 1:		
Test	er 2:		Assistant 2:		
Info Turn Veri	PARATION: rm control room operator that n off 'Red Tag' switch on x-ray fy that vacuum valves and wa se I beamlines or connect user  Place latch device on door lo Put door key in SRU and tur  Remove holder from switch	ring interlock, and ap ter interlocks are OK of interlock test jumper. ock so key can be remon, open safety and pho	ved. Place sw	es that will be chec	cked for
2.	Replace holder on switch 2.	RIB cannot be rese	et unless SOR	key is turned.	
3.	Remove holder on switch 1.				
4.	Replace holder on switch 1.	Hutch Kirk key (K	es on mes on w/o SOR autter closed.	e removed from SF	  RU
		unless button is pu	ished		
5.	Open safety shutter and phot				
		ККН са	nnot be remov	ed even if button is	s pushed

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6.		oint, but not far	enough to actuate "	key removed" s IH, and replace. t comes on	Push the button and turn witch. Release the butto	'n
			The safety shu The photon sh			
7.	With hutch interlock s  Open safety shutter. (		Beam line transf button on SRU i emains closed) Beam line transf	is pushed fer key can't be	· ·	
8.	Close safety shutter. key and replace.  Reset RIA and RIB	'Cheat" SRU as	button is pushed described in step 6. RIA latch light of RIB latch light of The safety shutt SPA comes on SPA can't be res	Open safety shows on comes on ter closes	nutter, remove the	
9.	Observe the photon sl	nutter (Vat valve)	•		l without hesitation	
10.	Open the safety shuttereplace the key.  Reset RIA and SPA	er. Remove the C	Control Room Shut The safety shutto RIA latch light of The "Control Ro	ter Enable Key : er closes comes on oom Shutter Ena omes on (after t	for this beam line, then  ble" light goes out he key is back on)	
11.	Open the Safety Shutt At the Control Room back to "Enable". Note	Operator's Conso		er closes	e to "Inhibit" and	

	2	<u>X15B</u> Beamlin	e Radiological Inte	erlock Test	
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12.	Open safety shutter. Disconnect the outboard		Safety shutter clo RIA trips RIB trips SPA comes on	oses	
	Reset faults and reconn	ect outboard co	onnector		
13.	Disconnect inboard con-		Safety shutter clo RIA trips RIB trips SPA comes on	oses	
14.	One person goes to the SR100. Open the safety shutter Remove holder from do	and photon shu		e indicators for RIA	X and RIBX at
			-	omes on bled" indicator goe abled" indicator co	
	Replace switch holder. Reset RIB		RIBX cannot be a	eset	
15.	Remove holder from do	oor switch #1.	RIA latch light of RIAX "Loop Ena RIAX "Loop Dis The safety shutte The photon shutte RIAX cannot be	abled" indicator goe abled" indicator co r closes er closes reset	es out
			RIAX CAN be re ("Loop Enabled"	eset indicator comes or	ı)
16.	Remove the holders fro close the door. Door switches operate f				or lock. Open and

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17.	Satisfy the hutch interlock. Locate the safety shutter associated with the beam line by tracing the
	beam pipe through the shield wall. Do not rely on labels on the shutter mechanism. Open the
	shutter.

	The correct shutter opens
	No other shutter at that saw tooth opens or attempts to open
Close the safety shutte	r.
	The mechanism moves freely and without hesitation

\* \* \*

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